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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/017,190 | 12/12/2001 | Richard Stewart | 010202 | 6381 |
| 23696 7590 01/05/2007 QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 | | | EXAMINER AN, SHAWN S | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2621 | |
| SHORTENED STATUTORY PERIOD OF RESPONSE | | NOTIFICATION DATE | DELIVERY MODE | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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| | | | |
|------------------------------|--------------------------------------|---------------------------------------|--|
| Office Action Summary | Application No. 10/017,190 | Applicant(s) STEWART ET AL. | |
| | Examiner Shawn S. An | Art Unit 2621 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11,13,14,25,26,28-34 and 44-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11,13,14,25,26,28-34 and 44-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Request for Continued Examination

1. The request filed on 11/28/06 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 10/017,190 is acceptable and a RCE has been established. An action on the RCE follows.

Response to Amendment

2. As per Applicants' instructions as filed on 11/28/06, claims 1, 25, and 44-47 have been amended, claims 12, 15-24, 27, and 35-43 have been canceled, and claim 48 has been newly added.

Response to Remarks

3. Applicants' arguments with respect to all of the amended claims have been carefully considered but are moot in view of the new ground(s) of rejection incorporating previously cited prior art references.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-3, 9, 11, 44, 46, and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Epstein et al (6,529,600 B1) in view of Dozier et al (5,751,346) and Lemke et al (4,339,775).

Regarding claims 1, 44, and 46, Epstein et al discloses an apparatus/method for surveillance, comprising:

means for generating at least one video of at least one surveilled location (movie theater) using at least one camera based on an initial frame rate (30 frames/sec) (col. 1, lines 34-46);

means for dynamically varying (col. 2, lines 24-29) the frame rate of the video at least partially based on the determined motion of at least one object (motion inherently involves an object/person/animal moving) at the surveilled location during the generating (col. 4, lines 28-53).

Epstein et al does not specifically disclose means/processor for determining motion of at least one object at the location in the surveilled location during the generating, wherein the frame rate is a rate of processing only a portion of a video frame.

However, Dozier et al teaches image retention and information security system comprising means for generating at least one video of at least one surveilled location (bank teller station) using at least one camera, and means/processor for determining motion of at least one object/person at the location in the surveilled location during the generating (*change between one image to the next*) (abs.).

Furthermore, Lemke et al teaches an apparatus for increasing the frame rate, wherein the frame rate is a rate of processing only portions of frame (col. 2, lines 23-35).

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an apparatus/method for surveillance as taught by Epstein et al to incorporate the well known concepts as taught by Dozier et al and Lemke et al for obvious motivations of detecting a motion of an object/person of interest for a security measure, and enhancing the quality of the selected portion of a video frame/image for security reviewing, only when there is a detected motion in an area of an image indicating an activity by a person/animal or a moving object.

Regarding claim 48, all of the claimed features with the exception of a computer readable medium performing steps/methods have been met by Epstein et al Dozier et al, and Lemke et al as discussed above.

Furthermore, Dozier et al teaches a computer software product (Fig. 1, 16) for surveillance, comprising a computer readable medium including codes for causing the computer to at least generate at least one video of at least one surveilled location using at least one camera (abs.).

Therefore, it would have been considered obvious to a person of ordinary skill in the relevant art employing an apparatus/method for surveillance as taught by Epstein et al to incorporate Dozier et al's teaching as above so that the computer software product for surveillance comprises a computer readable medium including codes for causing the computer to perform all of steps/methods as claimed, thereby saving substantial amount of operating expense associated with more expensive hardware overhead and/or manufacturing costs.

Regarding claim 2, Epstein et al discloses identifying the motion based on changes between frames of the video (col. 4, lines 40-53).

Regarding claim 3, the Examiner takes official notice that a conventional motion detector for detecting/sensing motion is well known in the art.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art to incorporate the conventional motion detector for detecting/sensing motion.

Regarding claim 9, Dozier et al teaches compressing the video (col. 6, lines 64-67).

Regarding claim 11, Epstein et al discloses processing entire frames of the frame rate (col. 4, lines 40-53).

6. Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Epstein et al, Dozier et al, and Lemke et al as applied to claim 1 above, and further in view of Monroe (6,518,881 B2).

Regarding claim 4, the combination of Epstein et al, Dozier et al, and Lemke et al does not particularly disclose transmitting the video to at least one mobile wireless receiver for display of the video on a mobile terminal.

However, Monroe teaches a digital communication system comprising at least one mobile wireless receiver (Fig. 3, 58 and 54), and a mobile terminal (200) for displaying the video.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance as taught by Epstein et al to incorporate the Monroe's teaching as above so as to transmit the video to at least one mobile wireless receiver for displaying the video on a mobile terminal, thereby the video can be observed/analyzed in one of many locations.

Regarding claim 5, since Monroe's mobile unit is used in a law enforcement vehicle, it would have been obvious to implement the mobile unit in a plurality of law enforcement vehicles comprising plurality of mobile wireless receivers for an obvious reason of covering communication capability (transmitting video) to a plurality of regions/locations/states.

Regarding claim 6, Monroe teaches transmitting the video to base station via the wireless interface in real time (col. 7, lines 3-7).

Therefore, it would have been obvious to transmit a video to the at least one mobile wireless receiver in real time for live observation of the video by the enforcement officer in case of an emergency.

Regarding claim 7, the Examiner takes official notice that a billing company or a corporation generating at least one electronic or paper billing document based on the transmission for delivering services/goods such as a product purchase transaction via the internet is well known in the art.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance as taught by Epstein et al to incorporate the well known concept of generating at least one electronic or paper billing document based on the transmission for delivering services/goods.

Regarding claim 8, the Examiner takes official notice that transmitting a video in response to a successful authentication such as in a pay per view method is well known in the art.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance to incorporate the well known concept of transmitting a video in response to a successful authentication such as in a pay per view method as a secure way to verify if the user/subscriber has authorization to view the requested video.

7. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Epstein et al, Dozier et al, and Lemke et al as applied to claim 1 above, and further in view of Acosta et al (6,166,729).

Regarding claim 10, the combination of Epstein et al, Dozier et al, and Lemke et al does not particularly disclose generating plural videos of respective surveillance locations and routing the videos to respective wireless receivers in response to user requests for videos.

However, Acosta teaches a remote digital image viewing system comprising generating a plurality of digital images of respective surveillance locations (Fig. 1, 12) and routing (18, 20) the digital images to respective wireless receivers (22) in response to user requests for a selected/desired digital image.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance as taught by Epstein et al to incorporate the Acosta's teaching as above, and substitute the digital image with the video of Epstein et al so as to generate plurality of videos of respective surveillance locations and route the videos to respective wireless receivers in response to user requests for videos, thereby the selected/desired video can be observed by wide range of network enabled users.

8. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Epstein et al, Dozier et al, Lemke et al, and Monroe as applied to claim 4 above, and further in view of Acosta et al (6,166,729).

Regarding claim 13, the combination of Epstein et al, Dozier et al, Lemke et al, and Monroe does not specifically disclose providing at least one conditional access module in a link between the location and receivers to secure the link.

However, Acosta teaches a remote digital image viewing system comprising providing at least one condition access module (Fig. 10, 472) in a link between the location (Fig. 1, surveillance camera, 12) and receiver (22) to secure the link.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance as taught by Epstein et al to incorporate the Acosta's teaching as above so as to provide at least one conditional access module in a link between the location and receivers to secure the link as a secure way to verify if the user/subscriber has authorization to view the requested video, thereby accessing /denying the video depending on the authentication.

Regarding claim 14, Acosta et al discloses authenticating at least one of: a source of video and the receiver (col. 16, lines 57-67).

9. Claims 25-26, 28-29, 32-34, 45, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Epstein et al (6,529,600 B1) in view of Dozier et al (5,751,346), Naidoo et al (6,690,411 B2), and Lemke et al (4,339,775).

Regarding claims 25, 45, and 47, Epstein et al discloses an apparatus/method for surveillance, comprising:

means for generating a video feed by generating video frames of at least one surveilled location (movie theater) using at least one camera based on an initial frame rate (30 frames/sec) (col. 1, lines 34-46);

means for varying the frame rate of the video at least partially based on the determined motion in the surveilled location during the generating (col. 4, lines 28-53).

Epstein et al does not specifically disclose means for determining motion of at least one object at the location in the surveilled location during the generating, and means for transmitting the video feed in real time to at least one monitoring receiver over a wireless link, wherein the frame rate is a rate of processing only a portion of a video frame.

However, Dozier et al teaches image retention and information security system comprising means for generating at least one video of at least one surveilled location (bank teller station) using at least one camera, and means/processor for determining

motion of at least one object/person at the location in the surveilled location during the generating (change between one image to the next) (abs.).

Furthermore, Naidoo et al discloses a surveillance apparatus/method comprising a surveillance camera adapted to generate a video feed by generating video frames of at least one surveilled location (col. 7, lines 42-53), and a transmitter for transmitting the video feed in real time to at least one monitoring receiver over a wireless link (col. 2, lines 27-42).

Moreover, Lemke et al teaches an apparatus for increasing the frame rate, wherein the frame rate is a rate of processing only portions of frame (col. 2, lines 23-35).

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an apparatus/ method for surveillance as taught by Epstein et al to incorporate the well known concepts as taught by Dozier et al, Naidoo et al, and Lemke et al for obvious motivations of detecting a motion of an object/person of interest for a security measure, transmitting the video feed in real time to at least one monitoring receiver over a wireless link for a further review, and enhancing the quality of the selected portion of a video frame/image for security reviewing, only when there is a detected motion in an area of an image indicating an activity by a person/animal or a moving object.

Regarding claims 26 and 33, Naidoo et al discloses processing and/or compressing an entire video frame/feed (col. 7, lines 37-44).

Regarding claim 28, the Examiner takes official notice that a billing company or a corporation generating at least one billing document based on the transmission of the data for delivering services/goods such as a product purchase transaction via the internet is well known in the art.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance to incorporate the well known concept of generating at least one billing document based on the transmission for delivering services/goods.

Regarding claim 29, Epstein et al discloses identifying the motion based on changes between frames of the video (col. 4, lines 40-53).

Regarding claim 32, Naidoo et al discloses transmitting in response to a successful authentication (col. 6, lines 58-67).

Regarding claim 34, the Examiner takes official notice that generating a plurality of video feeds of respective surveillance locations and routing the videos to respective wireless receivers in response to user requests for video feeds are conventionally well known in the art.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing a method for surveillance as taught by Naidoo et al to incorporate the well known concept as above, so that the plurality of video feeds from the respective surveillance locations can be observed by wide range of network enabled users using the respective wireless receivers.

10. Claims 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Epstein et al, Lemke et al, Naidoo et al, and Dozier et al as applied to claim 25 above, and further in view of Monroe (6,518,881 B2).

Regarding claim 30, the combination of Epstein et al, Lemke et al, Naidoo et al, and Dozier et al does not specifically disclose transmitting the video feed to at least one mobile wireless receiver for display of the video on a mobile terminal.

However, Monroe teaches a digital communication system comprising at least one mobile wireless receiver (Fig. 3, 58 and 54), and a terminal (200) for displaying the video.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an apparatus/method for surveillance as taught by Epstein et al to incorporate the Monroe's teaching as above so as to transmit the video to at least one mobile wireless receiver for displaying the video on a mobile terminal, thereby the video can be observed in one of many locations.

Regarding claim 31, since Monroe's mobile unit is used in a law enforcement vehicle, it would have been considered obvious to implement the mobile unit in a

Art Unit: 2621

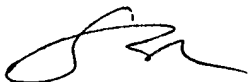
plurality of law enforcement vehicles comprising plurality of mobile wireless receivers for an obvious reason of covering communication capability (transmitting video) to a plurality of regions/locations/states.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Shawn S. An whose telephone number is 571-272-7324.

12. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



SHAWN AN
PRIMARY EXAMINER

12/28/06